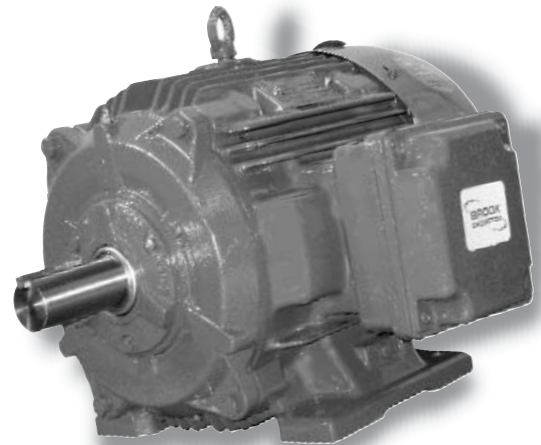


CAST IRON

IEC MOTORS

Heavy Duty Cast Iron construction for use on severe duty applications Frames 80-315L

Brook Crompton has manufactured these motors with North American industry in mind and the low maintenance cost make them the obvious choice.



Features:

- Enclosure IP Code: Totally Enclosed IP55
- Warranty 24 months
- Nameplate Certifications: CSA ~ C/US, CE, Class 1 Div 2, Groups A,B,C&D Temperature Class T3

Electrical Characteristics:

- Phase 3
- Frequency 60hz
- F1 Conduit box location
- Ambient 40 degrees C
- Class F Insulation
- Service Factor 1.15
- Class B Temperature Rise

- Inverter Duty suitable for MG1 Part 31 rating for use with VFD - 5:1 constant torque and 10:1 variable torque speed range

Application Information:

- The Brook Crompton Cast Iron design motor is supplied painted in a Synthetic Enamel on an Alkyd High build primer suitable for 200 hours salt spray life tested in accordance with ASTM B117
- Motors can be supplied as 50 hz with voltages and approvals to suit export

Construction features:

- By changing the position of the rotor F2 mounting arrangements can be attained

- Materials: Cast Iron frame, endshields and oversize conduit box, Sheet Metal Fan Cover
- NEMA C face available
- Gasketed conduit box for hose proof protection
- V Ring slinger on shaft
- Double sealed bearings up to 215T frame, regreasable bearings for 254T and larger
- Altitude 3300ft (1000m)
- Shaft Material: 1045 carbon steel
- Stainless Steel Nameplate
- NPT threaded Terminal Box
- Grounding Terminal on frames and inside conduit box

DOE No. **CC047A**

kW	HP	RPM	FRAME	FLC AMPS			EFFICIENCY			POWER FACTOR			STG.T % FLT	STG. C % FLT	POT % FLT	GD. ² KGM. ²	EST WT (lbs)
				230V	460V	575V	FL	0.75FL	0.5FL	FL	0.75FL	0.5FL					
0.25	0.33	1080	80	1.42	0.71	0.57	65.0	64.0	60.0	0.68	0.60	0.50	200	400	250	0.004	46
0.37	0.5	1090	80	1.9	0.95	0.76	69.0	68.0	66.0	0.71	0.63	0.52	210	400	260	0.011	46
0.55	0.75	1680	80	2.36	1.18	0.94	77.0	76.0	74.0	0.76	0.73	0.60	225	600	275	0.007	46
		1090	80	2.82	1.41	1.13	69.0	68.0	66.0	0.71	0.63	0.52	210	400	260	0.011	46
0.75	1	3380	80	3.02	1.51	1.21	79.0	78.0	76.0	0.79	0.72	0.60	275	600	325	0.003	46
		1690	80	3.02	1.51	1.21	80.0	79.0	77.0	0.78	0.75	0.64	200	500	250	0.007	46
		1120	90S	3.27	1.63	1.31	80.0	79.0	77.0	0.72	0.65	0.58	200	400	250	0.015	54
1.1	1.5	3385	80	4.08	2.04	1.63	82.5	82.0	80.0	0.82	0.78	0.70	225	600	275	0.004	46
		1690	90S	4.21	2.11	1.69	84.0	84.0	82.0	0.78	0.75	0.64	200	500	250	0.014	54
		1120	90L	4.95	2.48	1.98	78.5	78.0	76.0	0.71	0.63	0.52	200	430	250	0.021	60
1.5	2	3385	90S	5.47	2.73	2.19	84.0	84.0	82.0	0.82	0.78	0.70	225	600	275	0.006	54
		1700	90L	5.53	2.77	2.21	84.0	84.0	82.0	0.81	0.77	0.69	200	500	250	0.019	60
		1120	100L	6.42	3.21	2.57	81.5	81.0	79.0	0.72	0.65	0.58	200	400	250	0.03	64
2.2	3	3395	90L	7.88	3.94	3.15	85.5	85.0	83.0	0.82	0.78	0.70	225	600	275	0.008	60
		1700	100L	7.79	3.9	3.12	87.5	87.5	86.0	0.81	0.77	0.69	200	500	250	0.030	64
		1120	112M	8.77	4.38	3.51	87.5	87.5	86.0	0.72	0.65	0.58	200	400	250	0.048	88
3	4	3395	100L	10.19	5.09	4.08	84.0	84.0	82.0	0.88	0.84	0.76	275	600	325	0.022	64
		1725	100L	10.5	5.25	4.2	87.5	87.5	86.0	0.82	0.78	0.70	200	600	250	0.052	64
		1120	132S	11.5	5.7	4.6	87.5	87.5	86.0	0.75	0.70	0.60	200	500	250	0.174	172
4	5.5	3450	112M	13.0	6.5	5.2	87.5	87.5	86.0	0.88	0.84	0.75	250	650	300	0.03	88
		1730	112M	14.0	7.0	5.6	88.5	88.5	88.0	0.81	0.76	0.69	200	600	250	0.057	88
		1140	132M	14.5	7.3	5.8	87.5	87.5	86.0	0.79	0.75	0.68	200	550	250	0.214	196
5.5	7.5	3480	132S	17.3	8.7	6.9	88.5	88.5	88.0	0.90	0.88	0.86	210	730	240	0.034	172
		1740	132S	18.4	9.2	7.3	89.5	89.5	89.0	0.84	0.80	0.72	210	680	240	0.131	172
		1164	132M	19.7	9.9	7.9	87.5	87.5	86.0	0.80	0.76	0.68	200	630	250	0.214	196
7.5	10	3480	132S	23.4	11.7	9.3	89.5	89.5	89.0	0.90	0.88	0.86	210	690	240	0.06	172
		1750	132M	25.0	12.5	10.0	89.5	89.5	89.0	0.84	0.80	0.72	210	650	240	0.161	196
		1170	160M	26.3	13.1	10.5	89.5	89.5	89.0	0.80	0.76	0.68	200	600	250	0.46	405
11	15	3504	160M	34.8	17.4	13.9	90.2	90.2	89.0	0.88	0.84	0.76	250	700	300	0.13	405
		1752	160M	36.1	18.1	14.4	91.0	91.0	89.5	0.84	0.80	0.72	200	700	250	0.36	405
		1170	160L	38.3	19.1	15.3	90.2	90.2	89.0	0.80	0.76	0.68	200	700	250	0.64	453
15	20	3504	160M	47.4	23.7	19.0	90.2	90.2	89.0	0.88	0.84	0.76	250	600	300	0.17	405
		1752	160L	49.3	24.6	19.7	91.0	91.0	89.5	0.84	0.80	0.72	200	580	250	0.47	453
		1170	180L	51.2	25.6	20.5	92.0	91.5	90.0	0.80	0.76	0.68	225	600	275	1.16	607
18.5	25	3504	160L	58.0	29.0	23.2	91.0	91.0	89.5	0.88	0.84	0.76	275	600	325	0.21	453
		1770	180M	59.8	29.9	23.9	92.4	92.4	91.0	0.84	0.80	0.72	200	600	250	0.81	563
		1170	200L	60.3	30.1	24.1	91.7	91.5	90.0	0.84	0.80	0.72	200	600	250	1.69	843
22	30	3504	180M	66.0	33.0	26.4	91.0	91.0	89.5	0.92	0.90	0.86	275	700	325	0.44	563
		1770	180L	69.5	34.7	27.8	92.4	92.4	91.0	0.86	0.82	0.74	200	620	250	0.95	607
		1170	200L	71.2	35.6	28.5	92.4	92.4	91.0	0.84	0.80	0.72	200	600	250	2.04	843
30	40	3528	200L	90.6	45.3	36.2	92.4	92.4	91.0	0.90	0.88	0.86	200	600	250	0.80	843
		1770	200L	91.0	45.5	36.4	93.0	93.0	91.0	0.89	0.85	0.77	250	600	300	1.62	843
		1176	225M	95.3	47.6	38.1	93.0	93.0	91.0	0.85	0.81	0.73	200	600	250	3.61	1087
37	50	3540	200L	111.7	55.8	44.7	92.4	92.4	91.0	0.90	0.88	0.86	200	600	250	0.90	843
		1776	225S	112.2	56.1	44.9	93.0	93.0	91.0	0.89	0.85	0.77	250	600	300	2.64	990
		1176	250M	118.9	59.4	47.6	93.0	93.0	92.0	0.84	0.80	0.72	250	600	300	4.82	1410
45	60	3546	225M	129.0	65.0	52.0	93.0	93.0	91.0	0.94	0.92	0.88	225	700	275	1.87	1087
		1776	225M	136.0	68.0	54.0	93.6	93.6	92.0	0.89	0.85	0.77	250	600	300	3.13	1087
		1164	280S	141.0	71.0	56.0	94.1	94.0	92.5	0.85	0.81	0.73	200	600	250	4.82	2873
55	75	3546	250M	158.0	79.0	63.0	93.0	93.0	91.0	0.94	0.92	0.88	175	700	225	1.8	1410
		1770	250M	165.0	82.0	66.0	94.1	94.0	92.5	0.89	0.85	0.77	200	700	250	3.45	1410
		1164	280M	174.0	87.0	70.0	94.5	94.5	925.0	0.84	0.80	0.72	200	600	250	9.89	3636
75	100	3546	280S	214.0	107.0	86.0	93.6	93.6	92.0	0.94	0.92	0.88	150	700	200	3.4	2873
		1770	280S	232.0	116.0	93.0	94.5	94.5	92.5	0.86	0.82	0.74	200	600	250	7.21	2873
		1170	315S	251.0	125.0	100.0	95.0	94.5	93.5	0.79	0.75	0.67	200	600	250	14.12	3256
90	120	3550	280M	272.0	136.0	109.0	94.5	94.5	92.5	0.88	0.84	0.76	150	680	200	3.8	3036
		1775	280M	272.0	136.0	109.0	94.5	94.5	92.5	0.88	0.84	0.76	175	700	225	8.26	3036
		1170	315M	287.0	143.0	115.0	95.0	94.5	93.5	0.83	0.79	0.71	200	700	250	17	3256
110	150	3550	315S	328.0	164.0	131.0	94.5	94.5	92.5	0.89	0.85	0.77	150	700	200	5.82	3256
		1775	280M	334.0	167.0	134.0	95.0	94.5	93.5	0.87	0.83	0.75	175	700	225	11.62	3036
		1170	315M	359.0	179.0	144.0	95.0	94.5	93.5	0.81	0.77	0.69	200	600	250	18.98	3256
150	200	3550	315M	445.0	223.0	178.0	95.0	94.5	93.5	0.89	0.85	0.77	150	700	200	8.0	3256
		1775	315M	456.0	228.0	182.0	95.0	94.5	93.5	0.87	0.83	0.75	175	700	225	15.6	3256
185	250	3550	315L	553.0	277.0	221.0	95.4	95.0	94.0	0.88	0.84	0.76	150	700	200	12.4	3256
		1775	315L	562.0	281.0	225.0	95.0	94.5	93.5	0.87	0.83	0.75	175	700	225	22.5	3256

